

REVIEW OF PLANT PATHOLOGY

Volume 54



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The Editor gratefully acknowledges the assistance with this volume of Mrs.
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REVIEW OF PLANT PATHOLOGY

CONTENTS

REVIEW ARTICLES

	Page
Take-all Diseases of Gramineae: A Review of Recent Work	
By J. Walker	113
Plant Pathology in Peninsular Malaysia	
By W.P. Ting	297
European Canker of Apple (<i>Nectria galligena</i>)	
By T.R. Swinburne	787
A Bibliography of Lists of Plant Diseases and Fungi	
V. Australasia and Oceania	963

ABSTRACTS

PARTS 1-6

Reports	1	55	145	223	307	383
Miscellaneous publications	—	55	149	224	309	384
Books	—	—	149	224	—	385
Bacteria	5	56	150	225	310	385
Entomogenous fungi	6	—	151	226	312	386
Fungicides	6	57	152	227	312	389
Antibiotics	10	58	153	228	314	391
Legislation	—	—	154	—	314	—
Mycorrhiza	10	59	154	228	315	392
Physiology	11	59	155	229	315	392
Soils	13	63	158	231	318	395
Systematic mycology	14	64	160	233	319	396
Techniques	15	66	163	236	320	398
Viruses and mycoplasmas	15	66	163	237	321	398
Crops, general	20	71	168	242	326	404
Cacao	21	72	170	243	—	406
Cereals	21	73	171	243	326	407
Citrus	30	82	180	252	338	421
Coffee	31	83	181	254	340	423
Cotton	32	84	182	255	341	424
Fibre plants	32	—	184	256	342	427
Flowers and ornamentals	33	86	184	257	343	427
Fodder and herbage crops	34	87	188	260	344	431
Fruit	35	88	189	262	346	434
Grapevine	40	93	195	267	354	443
Hops	—	—	—	271	354	445
Officinal Plants	40	94	198	271	355	446
Palms	—	—	—	272	356	447
Potato	41	95	198	273	357	448
Rubber	—	—	203	276	359	—
Sugarcane	—	97	203	277	360	453
Tea	42	—	204	—	360	454
Tobacco	42	98	204	278	360	454
Tomato	43	100	205	279	362	457
Trees	44	101	207	281	363	461
Vegetables	48	105	213	287	369	468

PARTS 7-12

ABSTRACTS

Reports	483	581	667	801	881	967
Miscellaneous publications	493	583	675	803	886	974
Books	—	583	675	804	886	974
Bacteria	493	584	675	804	886	974
Entomogenous fungi	495	587	677	806	897	976
Fungicides	496	587	678	807	897	977
Antibiotics	498	589	681	808	890	978
Legislation	—	—	—	—	890	980
Mycorrhiza	499	589	681	809	890	980
Physiology	499	591	683	809	892	981
Soils	503	594	687	813	895	983
Systematic mycology	504	595	689	814	896	984
Techniques	507	599	693	—	898	985
Viruses and mycoplasmas	508	599	693	815	899	986
Crops, general	512	603	698	819	904	991
Cacao	514	—	701	—	905	992
Cereals	515	604	702	821	906	993
Citrus	527	619	721	836	915	1005
Coffee	528	620	723	838	917	1006
Cotton	528	621	724	838	917	1007
Fibre plants	531	622	—	839	917	1007
Flowers and ornamentals	532	623	725	840	918	1008
Fodder and herbage crops	534	627	729	844	921	1010
Fruit	537	629	731	846	922	1012
Grapevine	545	635	743	856	931	1017
Hops	547	637	744	856	—	1017
Officinal Plants	547	637	744	857	933	1018
Palms	548	639	746	858	935	1018
Potato	548	639	746	858	936	1019
Rubber	551	642	—	—	939	—
Sugarcane	551	642	754	862	939	1023
Tea	552	642	755	—	940	1024
Tobacco	552	643	755	862	940	1024
Tomato	555	644	757	863	943	1025
Trees	556	648	761	865	945	1027
Vegetables	565	655	770	871	950	1034

AUTHOR INDEX

1049

SUBJECT INDEX

1101

REVIEW OF PLANT PATHOLOGY

READERS' GUIDE

1975

The primary object of the *Review* is to provide a monthly survey of the more important recent world literature on diseases of plants caused by fungi, bacteria, viruses, mycoplasmas and nonpathogenic factors. It aims at supplying sufficiently full abstracts to enable readers to keep informed of the progress of current work and to allow them to decide whether they require to see the original document.

Some 950 serial publications, including other abstracting journals, are examined regularly; they are listed in this number. Many others, together with miscellaneous publications and books, are also scanned. An effort is made to note all new data; previously published information, well known facts and popular articles may be omitted. Some background papers are noticed by very brief notices, and some of local or marginal interest by titles only. Taxonomic papers are listed in the Institute's half-yearly *Bibliography of Systematic Mycology*, which forms a useful supplement to the *Review*. New generic and specific names of fungi are compiled in the *Index of Fungi*.

To notice new work as soon as possible early results are frequently taken from summaries in annual reports and other official publications; subsequent, more detailed publication of the same results in journals can then be treated more briefly. Back references to the *Review* (in square brackets) are given to link related publications and also to enable further details to be traced quickly. References are also given to the Institute's *Distribution Maps of Plant Diseases* (as [CMI Map 123]) when the record is a new one for the map cited, or when more information on distribution is relevant.

When consulting an entry the reader should remember that the title is an integral part of the abstract and may include data necessary for its full comprehension.

In a typical citation the name(s) of the author(s) are followed by the title of the paper in English. If the paper is written in a language other than English, the English translation of the title is enclosed in square brackets. The title in the original language, if not English, follows, except for Arabic, Chinese, Japanese etc. Cyrillic characters are transliterated on a system based on a collation of International Standard ISO/R9 1968(E) and the draft International Standard ISO/TC46 955E Rev. Journal titles are next given in unabbreviated form. The year of issue, in round brackets, the volume number, part number in round brackets, and first and last page numbers of the article complete the basic citation.

Supplementary details given in square brackets include the language of the paper (a two-letter abbreviation with an initial capital) and the language of any summary or summaries in languages other than that of the paper (a similar abbreviation without an initial capital); and there may also be included the number of references, plates, figures, graphs, maps, tables. The affiliation of the first author is also usually given in abbreviated form.

Every effort is made to achieve consistency in the nomenclature of pathogens used in the *Review*. The names of fungi and bacteria are kept in line with the International Codes of Botanical and Bacteriological Nomenclature and with current taxonomic opinion. Preferred names are given, where necessary, in square brackets in the abstract and are used in the subject index. Whenever the perfect state of a fungus is known and generally accepted the name applied to this state is used, even if the paper abstracted refers only to the imperfect state (e.g. *Drechslera oryzae* is always referred to as the perfect state, *Cochliobolus miyabeanus*). Virus names are generally those given by the author. Synonyms are listed in the Institute's publication, *Plant Virus Names (Phytopathological Paper 9, 1968 and Supplement 1, 1971)*.

The abstracts are arranged in a repeating series (indicated by page and section headings) composed of two main parts; one general, the other of diseases arranged by crops (see below). Whenever possible, papers are arranged under the host. However, a paper on, for instance, tobacco mosaic virus, not referring to a specific host, would come under 'viruses' rather than 'tobacco'. The monthly contents list follows the same pattern.

The general index is primarily a host-parasite-geographical index with the entries analysed under hosts and repeated in less detail under pathogens. Fungicides are indexed under the chemical names or, if well known, under proprietary names, and the pathogen against which they are used is indicated, together with the host. There are in addition a number of special entries such as 'Apparatus', 'Books', 'Legislation', 'Reports', 'Conferences', 'Plant Diseases', 'Techniques' etc.

ARRANGEMENT OF ABSTRACTS

GENERAL

REPORTS, Conferences, Symposia etc.

MISCELLANEOUS Subjects

BOOKS (on general subjects; others under specific headings)

BACTERIA (general aspects only; bacterial diseases under crops)

ENTOMOGENOUS Fungi

FUNGICIDES

ANTIBIOTICS

LEGISLATION

MYCORRHIZA

PHYSIOLOGY

SOILS (and Fertilizers)

SYSTEMATIC Mycology (including lists of fungi unless on one host only, then under host)

TECHNIQUES

VIRUSES & MYCOPLASMAS (general aspects and abstracts referring to more than one host; otherwise under crops)

DISEASES & DISORDERS

CROPS, GENERAL (plant disease surveys and lists and papers of a general nature)

CACAO

CEREALS

- Wheat
- Barley
- Oats
- Rye
- Maize
- Sorghum
- Pennisetum
- Millets
- Rice

CITRUS

COFFEE

COTTON

FIBRES

FLOWERS (and Ornamentals)

Arranged alphabetically

FODDERS (and Herbage Crops)

- Grasses
- Legumes

FRUIT

- Pome
- Stone
- Soft
- Tropical
- Olive

GRAPEVINE

HOPS

OFFICIAL Plants

PALMS

POTATO

RUBBER

SUGARCANE

TEA

TOBACCO

TOMATO

TREES

- Broad-leaved
- Conifers
- Timber

VEGETABLES

Main subsections

- Beet
- Brassicas
- Cucurbits
- Legumes
- Mushrooms
- Other temperate
- Tropical

(The entries in capitals are those used for page and section headings)

ABBREVIATIONS

Australian States & Territories:

ACT, Australian Capital Territory; NSW, New South Wales; NT, Northern Territory; Qd., Queensland; S. Aust., South Australia; Tas., Tasmania; Vict., Victoria; W. Aust., Western Australia.

Canadian Provinces:

Alta., Alberta; BC, British Columbia; Man., Manitoba; NB, New Brunswick; NS, Nova Scotia; Ont., Ontario; PEI, Prince Edward Island; Que., Quebec; Sask., Saskatchewan.

USA States:

Ala., Alabama; Ariz., Arizona; Ark., Arkansas; Calif., California; Colo., Colorado; Conn., Connecticut; Del., Delaware; DC, District of Columbia; Fla., Florida; Ga., Georgia; Ill., Illinois; Ind., Indiana; Kans., Kansas; Ky., Kentucky; La., Louisiana; Md., Maryland; Mass., Massachusetts; Mich., Michigan; Minn., Minnesota; Miss., Mississippi; Mo., Missouri; Mont., Montana; Neb., Nebraska; Nev., Nevada; N. Hamp., New Hampshire; NJ, New Jersey; N. Mex., New Mexico; NY, New York; N. Carol., North Carolina; N. Dak., North Dakota; Okla., Oklahoma; Ore., Oregon; Pa., Pennsylvania; RI, Rhode Island; S. Carol., South Carolina; S. Dak., South Dakota; Tenn., Tennessee; Vt., Vermont; Va., Virginia; Wash., Washington; W. Va., West Virginia; Wis., Wisconsin; Wyo., Wyoming.

Languages:

Ar, Arabic; Bg, Bulgarian; Ch, Chinese; Cr, Croat; Cs, Czech; Da, Danish; De, German; En, English; Ee, Estonian; Es, Spanish; Fi, Finnish; Fr, French; Gr, Greek; Hu, Hungarian; It, Italian; Ja, Japanese; La, Latin; Lv, Latvian; Nl, Dutch or Flemish; No, Norwegian; Pl, Polish; Pt, Portuguese; Ro, Rumanian; Ru, Russian; Sr, Serbian; Sh, Serbo-Croat; Sk, Slovak; Sv, Swedish; Tr, Turkish; Uk, Ukrainian; etc.

Months:

Jan., Feb., Mar., Apr., Aug., Sept., Oct., Nov., Dec.

Organizations:

ADAS	Agricultural Development & Advisory Service
CSIRO	Commonwealth Scientific & Industrial Research Organization
DSIR	Department of Scientific & Industrial Research
EAAFR0	East African Agriculture & Forestry Research Organization
EPPO	European & Mediterranean Plant Protection Organization
E. Malling	East Malling Research Station, nr. Maidstone, Kent
FAO	Food & Agriculture Organization of the United Nations
IARI	Indian Agricultural Research Institute, New Delhi
INRA, Versailles	Station Centrale de Pathologie Vegetale et Laboratoire de Phytopharmacie, Institut National Recherches Agronomiques, Versailles, France
IPO, Wageningen	Instituut voor Plantenziektenkundig Onderzoek, Wageningen
Long Ashton	Agricultural & Horticultural Research Station, Long Ashton, Bristol
Rothamsted	Rothamsted Experimental Station, Harpenden, Herts.
USDA	United States Department of Agriculture

In addition, a number of easily understood abbreviations are used (e.g. Univ., University). Units of measurement are abbreviated basically according to the publication *Changing to the metric system* (HMSO, 1969). The international symbols for the commoner chemical elements and a number of simple chemical formulae are also used.

REVIEW OF PLANT PATHOLOGY

List of Serial Publications Regularly Seen
1975

An asterisk (*) indicates that the publication is not available at Kew.

- Abstracts of Bulgarian Scientific Literature, A.
- Abstracts of Mycology. USA.
- *Abstracts on Tropical Agriculture. Netherlands.
- Acta Agriculturae Scandinavica. Sweden.
- Acta Agrobotanica. Poland.
- *Acta Agronomica Academiae Scientiarum Hungaricae.
- Acta Agronomica, Facultad de Agronomía, Universidad Nacional de Colombia.
- Acta Biologica Iugoslavica, B.
- Acta Botanica Academiae Scientiarum Hungaricae.
- Acta Botanica Indica.
- Acta Botanica Neerlandica. Netherlands.
- Acta Botanica Sinica. China.
- Acta Forestalia Fennica. Finland.
- *Acta Fytotechnica. Czechoslovakia.
- Acta Microbiologica Polonica, A & B. Poland.
- *Acta Microbiologica Sinica. China.
- Acta Mycologica. Poland.
- Acta Phytomedica. German Federal Republic.
- Acta Phytopathologica Academiae Scientiarum Hungaricae.
- Acta Phytotaxonomica et Geobotanica. Japan.
- Acta Phytotaxonomica Sinica. China.
- Acta Průhonická. Czechoslovakia.
- Acta Societatis Botanicorum Poloniae. Poland.
- Acta Societatis pro Fauna et Flora Fennica. Finland.
- ADAS Quarterly Review. UK.
- *Advances in Applied Microbiology. USA.
- *Advances in Virus Research. USA.
- Advancing Frontiers of Plant Sciences. India.
- Advisory Circular, Rubber Research Institute of Ceylon. Sri Lanka.
- Advisory Leaflet, Ministry of Agriculture, Fisheries & Food, UK.
- *Agra University Journal of Research, Science. India.
- Agricultura, Portugal.
- *Agricultura Técnica. Chile.
- *Agricultura Tropical. Colombia.
- *Agricultural Aviation. Netherlands.
- Agricultural Gazette of New South Wales. Australia.
- *Agricultural Meteorology. Netherlands.
- Agricultural Research, Guyana.
- Agricultural Research Journal of Kerala. India.
- *Agricultural Research Review. United Arab Republic.
- Agricultural Science, Hong Kong.
- Agriculture Handbook, US Department of Agriculture.
- Agriculture Hong Kong.
- Agriculture Pakistan.
- Agronomía, Guatemala.
- Agronomia Lusitana. Portugal.
- Agronomia Moçambicana. Mozambique.
- Agronomia Sulriograndense. Brazil.
- Agronomia Tropical. Venezuela.

- Agronomie Tropicale, II. France.
 *Agronomy Journal. USA.
 *Alexandria Journal of Agricultural Research. United Arab Republic.
 Allionia. Italy.
 American Horticulturist. USA.
 American Journal of Botany. USA.
 American Midland Naturalist. USA.
 American Naturalist. USA.
 American Potato Journal. USA.
 Amtliche Pflanzenschutzbestimmungen. Berlin.
 Anais da Escola Superior de Agricultura 'Luiz de Queiroz'. Brazil.
 Analele Institutului de Cercetări pentru Protecția Plantelor. Rumania.
 Anales Científicos, Departamento de Publicaciones de la Universidad Nacional Agraria. Peru.
 Anales del Instituto de Biología, Universidad de México.
 Anales del Instituto Botánico A.J. Cavanilles. Spain.
 Anales del Instituto Nacional de Investigaciones Agrarias, Protección Vegetal. Spain.
 *Anales de la Sociedad Científica Argentina.
 *Andhra Agricultural Journal. India.
 Angewandte Botanik. Berlin.
 *Annales Agriculturae Fenniae. Finland.
 *Annales de l'Amélioration des Plantes. France.
 Annales Botanici Fennici. Finland.
 Annales de l'Institut Phytopathologique Benaki. Greece.
 Annales de Phytopathologie. France.
 Annales des Sciences Naturelles. France.
 *Annales de la Société Entomologique de France.
 Annali della Facoltà di Scienze Agrarie della Università degli Studi di Torino. Italy.
 Annali dell'Istituto Sperimentale per la Patologia Vegetale. Italy.
 *Annals of Agricultural Science, University of A'in Shams. United Arab Republic.
 Annals of Applied Biology. UK.
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